in line 19, after "GSM", insert –(Global System for Mobile Communications)--;

in line 20, cancel "(Global System for Mobile Communications)"; and

in line 26, replace "whereby" with –in which--.

On page 2:

in line 1, replace ". As a result thereof," with –, resulting in optimum utilization of--;

in lines 2-3, cancel "can be optimally utilized";

in line 5, replace "hitherto run afoul thereof that" with –previously been problematic because--;

in line 6, replace "wherein" with –in which--;

in line 8, cancel "the schematic illustration in"

above line 12, insert

--SUMMARY OF THE INVENTION--;

in line 12, replace "propose" with –provide--;

in line 14, replace "wherein" with –in which--;

replace lines 15-18 with

-- This object is achieved by a method for the compressed cordless communication between a base station and a plurality K of mobile parts via a plurality of K*, which is less than K, physical radio channels, comprising the steps of: acquiring pause sections in respective transmission data in the base station and the mobile parts; storing the transmission data in a transmission data memory in the base station and a transmission data memory in the mobile parts; storing appertaining the transmission data and transmission pause time reference information in a transmission time reference memory in the base station and in the mobile parts; communicating the time reference information from the mobile parts to the base station; determining transmission time intervals of the base station and of the mobile parts with a controller implemented in the base station; and transmitting the transmission time intervals from the base station to the respective mobile parts allocated to the individual base stations.

The object is also achieved by a base station for a compressed cordless communication with a plurality K of base stations via a plurality K*, which is less than K of physical radio channels, comprising: a data input; a data pause acquisition mechanism for acquiring data pauses in transmission data from the data input; a transmission data memory for storing the transmission data; a transmission time reference memory for storing transmission data and transmission pause time reference information; a modulator-concentrator for compressing the transmission data onto K* physical radio channels; a transmitter for transmitting the compressed transmission data; a receiver for receiving reception data; a demodulator-expander for expanding the received data onto K logical communication channels; a reception data memory for storing the reception data; a reception time reference memory for storing time reference information belonging to the reception data; a data output for outputting the reception data; a controller for controlling transmission time intervals of the transmitter and of the mobile parts and for compiling the reception data stored in the reception data memory based on the time reference information stored in the reception time reference memory such that an original data and pause sequence of the data is restored for an output of data at the data output.

The object is also achieved by a mobile part for a compressed cordless communication with a base station, comprising: a data input; a data pause acquisition mechanism for acquiring data pauses in transmission data from the data input; a transmission data memory for storing the transmission data; a transmission time reference memory for storing the appertaining transmission data and transmission pause time information; a transmitter; a receiver for receiving data; a reception data memory for storing the received data; a reception time reference memory time reference information belonging to the reception data; a data output for outputting the reception data; a controller for controlling the transmitter for a transmission of transmission data dependent on transmission time intervals received from the base station and for compiling the reception data stored in the reception data memory based on time reference information stored in the reception time reference memory such that an original data and pause sequence of the data is restored, and for an output of the data at the data output.--; and

cancel lines 19-28.

On page 3:

cancel lines 1-6;

in line 16, replace "respectively other" with –other respective--;

in line 18, replace "ration" with –ratio--;

in line 21, after "part", insert --,--;

in line 22, cancel "thereby", and after "arises", insert –from this--;

in line 24, after "as", insert –a--; and

in line 25, after "between", insert –a--.

On page 4:

in line 4, cancel ", respectively,";

in line 5, replace "whereby" with –in which--; and

in line 23, replace "control means" with –controller--.

On page 5:

in line 1, after "When", insert –a--;

above line 4, insert

--BRIEF DESCRIPTION OF THE DRAWINGS --;

in line 5, replace ", wherein" with --.--;

in line 10, replace "Figure 3 an illustration" with –Figures 3A & 3B are graphic illustrations--;

above line 12, insert

--DESCRIPTION OF THE PREFERRED EMBODIMENTS--;

in line 13, cancel "Let it be";

replace lines 14-15 with –A mobile part here is not necessarily defined as a mobile telephone or car telephone—a mobile part as defined here means any communication terminal--;

in line 18, cancel ", for example,";

in line 21, replace "means" with –mechanism--;

in line 23, replace "corresponds [sic]" with –correspond--, and after "example", insert --,--; and

in line 26, replace "therein by a control means" with –within by a controller--.

On page 6:

in line 1, replace "transmission means" with –transmitter--, and after "concentrator", insert --*--;

in line 3, replace "control means" with –controller--;

in line 7, replace "reception means" with –receiver--;

in line 11, replace "control means" with –controller--;

in line 16, after "subscriber", insert --,--;

in line 17, replace "means 20. The" with –mechanism 20 at which the--;

a8

in line 23, replace "amounts to" with –is--;

in line 24, replace "= 4ms" with –(4 ms total)--; and

in line 29, replace "control means" with –controller--.

On page 7:

in line 2, replace "transmission means" with –transmitter--, and cancel "thereby";

in line 4, after "a", insert –connected--;

a9

replace line 5 with –loss are thus also prevented given a user of a mobile part for--;

in line 6, replace "means" with –mechanism--;

in line 9, after "example", insert --,--;

in line 12, replace "reception means" with –receiver--;

in line 15, after "i.e.", insert --,--;

in line 16, replace "control means" with –controller--;

in line 17, replace "reception means" with –receiver--, and replace "control means" with –controller--; and

in line 21, replace "control means" with –controller--.

On page 8:

in line 2, replace "control means" with –controller--;

in line 4, replace "Given what is referred to as a joint detection" with –For a "joint detection"--;

in line 15, replace "derives wherein" with –occurs in which--; and

in line 20, replace "so large" with –large enough-, and after "compensated", insert –for—.

On page 9, in line 28, replace "whereby" with –in which--.

On page 10:

in line 4, replace "Given" with –For--;

in line 6, replace "whereby" with –in which--;

in line 11, replace "proposes" with –provides--;

in line 13, replace "K*<K" with –K*, which is <K,-, and replace "whereby" with –in which--; and

below line 14, insert

-- The above-described method and devices are illustrative of the principles of the present invention. Numerous modifications and adaptations thereof will be readily apparent to those skilled in this art without departing from the spirit and scope of the present invention. --

IN THE CLAIMS:

On page 11:

replace line 1 with --WHAT IS CLAIMED IS:--;

Please amend the following claims 1-17.

1. (Amended) A method [Method] for the compressed cordless communication between a base station and a plurality K of mobile parts via a plurality of K*, which is less than [<] K_1 physical radio channels, comprising the [method] steps of:

[-- acquisition of] acquiring pause sections in [the] respective transmission data in said [the] base station and said [the] mobile parts;

[--] storing said [the] transmission data in a transmission data memory [(3, 15)] in said [the] base station and a transmission data memory in said [the] mobile parts;

[--] storing [the] appertaining said transmission data and transmission pause time reference information in a transmission time reference memory [(6, 17)] in said [the] base station and in said [the] mobile parts;

[--] communicating said [the] time reference information from said [the] mobile parts to said [the] base station;

[--] determining transmission time intervals of said [the] base station and of said [the] mobile parts with a controller [control means (5)] implemented in said [the] base station; and

[--] transmitting said [the] transmission time intervals from said [the] base station to said [the] respective mobile parts allocated to said [the] individual base stations.

2. (Amended) The method [Method] according to claim 1, wherein said [characterized in that the] time reference information is communicated [transmitted] from said [the] mobile parts to said [the] base station in a control information field together with said [the] transmission data.

3. (Amended) The method [Method] according to claim 1, wherein said [or claim 2, characterized in that the] transmission time intervals are communicated from said [the] base station to [the] respective said mobile parts in a control information field together with said [the] transmission data.

4. (Amended) The method [Method] according to claim 1, wherein communication between said base station and said mobile parts takes place using [one of the claims 1 through 3, characterized in that] a combined TDMA/CDMA method [is applied as radio transmission method between base station and mobile parts].

5. (Amended) The method [Method] according to claim 1, further comprising the step of selecting a [one of the claims 1 through 4, characterized in that the] ratio of said [the] plurality of physical radio channels to a [the] plurality of logical transmission channels K*/K [is selected] dependent on an average data-to-pause ratio of [the] communication between said base station and said mobile parts.

6. (Amended) The method [Method] according to claim 5, wherein said [characterized in that the] ratio [of the plurality of physical radio channels to the plurality of logical data channels amounts to] is 1/2.

7. (Amended) The method [Method] according to claim 1, further comprising the step of communicating at regular intervals by said base station, [one of the claims 1 through 6, characterized in that,] independently of said [the] data transmission, [the base station communicates] a control signal to all said mobile parts [at regular intervals] for updating [the] reception data memory [(14)] and [the] reception time information memory [(16)] of a [the] respective said mobile part.

8. (Amended) The method [Method] according to claim 1, wherein said [one of the claims 1 through 7, characterized in that the] transmission data are stored in blocks corresponding to a fixed transmission data length.

9. (Amended) The method [Method] according to claim 8, wherein said fixed transmission data length is [characterized in that the block length corresponds to] the frame length of a TDMA frame or a multiple thereof.

10. (Amended) The method [Method] according to claim 8, wherein said [or 9, characterized in that the size of said [the] transmission data memory [memories (3, 15)] and reception data memory [memories (4, 14) is] are sized to be a whole multiple of said [the] block size and is selected according to a maximally allowed delay time.

11. (Amended) The method [Method] according to claim 1, further comprising the step of controlling: [one of the claims 1 through 10, characterized in that the] data output from one of said [a] mobile parts [part] or said [the] base station, to a user or [, respectively,] a connected communication network [is] controlled such that a [the] signal running time influenced by [the] data storage at a [the] transmission and a reception side is always constant for all transmission channels.

12. (Amended) The method [Method] according to claim 1, further comprising the steps of: [one of the claims 1 through 11, characterized in that]

storing transmission pauses [are stored] in said [the] time reference memories [(6, 7, 16, 17)] of said [the] base station and of said [the] mobile parts in a [the] form of whole multiples of a transmission data block length; and [in that,]

reinserting said transmission pauses, upon output of [the] data from [a] one of said mobile parts [part] to a user or, respectively, to said [the] base station to a connected communication network, [the pauses are reinserted] into a [the] data stream in proper time dependent on said [the] time reference information stored in said [the] reception time reference memory [(7, 16)] in order to restore the original data and [/] pause sequence.

13. (Amended) The method [Method] according to claim 1, further comprising the step of [one of the claims 1 through 12, characterized in that the control means (5)] providing an ability by said controller of said [the] base station [assures that] for each mobile telephone to [can] transmit at least once in a time interval that corresponds to [the size of] its transmission data memory size [(15)].

14. (Amended) The method [Method] according to claim 1, further comprising the step of [one of the claims 1 through 13, characterized in that,] informing, by said base station, dependent on [the] data stored in said [the] transmission data memory [memories (3, 15)] of said [the] base station and of said [the] mobile parts, [the base station informs] respective mobile parts whether said [the] mobile part sends [and/] or receives data for a specific time duration.

15. (Amended) A base station for a compressed cordless communication with a plurality K of base stations via a plurality K*, which is less than [<] K_s of physical radio channels, comprising:

[--] a data input;

[--] a data pause acquisition mechanism [means (1)] for acquiring data pauses in [the] transmission data from said data input;

[--] a transmission data memory [(3)] for storing said [the] transmission data;

[--] a transmission time reference memory [(6)] for storing transmission data and transmission pause time reference information;

[--] a modulator- [/] concentrator [(8)] for compressing said [the] transmission data onto K* physical radio channels;

[--] a transmitter for transmitting said compressed transmission data [transmission means (10)];

[--] a receiver [reception means (11)] for receiving reception data;

[--] a demodulator- [/] expander [(9)] for expanding said [the] received data onto K logical communication channels;

[--] a reception data memory [(4)] for storing said [the] reception data;

[--] a reception time reference memory [(7)] for storing [the] time reference information belonging to said reception [the received] data;

[--] a data output for outputting said reception data;

[--] a controller [control means (5)] for controlling [the] transmission time intervals of said transmitter [the transmission means (10)] and of said [the] mobile parts and for compiling said [the] reception data stored in said [the] reception data memory [(4) on the basis of the] based on said time reference information stored in

said [the] reception time reference memory [(7)] such that an [the] original data and [/] pause sequence of said [the] data is restored for an [the] output of [the] data at said [the] data output.

16. (Amended) A base [Base] station according to claim 15, wherein said [characterized in that the] data output is connected to another communication network.

17. (Amended) A mobile [Mobile] part for a compressed cordless communication with a base station, comprising:

[--] a data input;

[--] a data pause acquisition mechanism [means (20)] for acquiring data pauses in transmission data from said data input;

[--] a transmission data memory [(15)] for storing said [the] transmission data;

[--] a transmission time reference memory [(17)] for storing the appertaining transmission data and transmission pause time information;

[--] a transmitter [transmission means (13)];

[--] a receiver [reception means (12)] for receiving data;

[--] a reception data memory [(14)] for storing said received [the reception] data;

[--] a reception time reference memory [(16) for storing the] time reference information belonging to said reception [the received] data;

[--] a data output for outputting said reception data;

[--] a controller [control means (18)] for controlling said transmitter [the transmission time means (13)] for a [the] transmission of transmission data dependent on [the] transmission time intervals received from said [the] base station and for compiling said [the] reception data stored in said [the] reception data memory [(14) on the basis of the] based on time reference information stored in said [the] reception time reference memory [(16)] such that an [the] original data and [/] pause sequence of said [the] data is restored, and for an [the] output of said [the] data at said [the] data output.